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<110> Kellenberger, Johannes
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Stutzman-Engwall, Kim
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<120> Polyketides, Their Perparation, and
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<140> 09/743,162

<141> 2001-08-24

<150> PCT/GB99/02158

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ccaccggcgc	atcatccggt	ccggtctgca	tcccatgtcg	accccgagcg	cactggccct	12060
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caccaccact	accggtggtg	cggacaacgg	cgcccagctg	cacgcccggc	tggccggcca	12240
gacacacgaa	caacagcaca	ccaccctcct	cgcctgggtc	cgctcccaca	tcgccaccgt	12300
cctggggccac	accacccccg	acaccatccc	ccccgaccgc	gcgttccgcg	acctcggtt	12360
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<220>
 <223> Primer

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37

<210> 3
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 <212> DNA

<213> Artificial Sequence
 <220>
 <223> Primer
 <400> 3
 atgttaaccg gtcgcgagg ctctccgtct 30
 <210> 4
 <211> 32
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Primer
 <400> 4
 atgttaacgg gtctgccgag tgccgagcgg ac 32
 <210> 5
 <211> 30
 <212> DNA
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 <223> Primer
 <400> 5
 cttctagact atgaattccc tccgccagc 30
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 <211> 28
 <212> DNA
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 <223> Primer
 <400> 6
 atactagtcc tcgtgacgag ctgcacgg 28
 <210> 7
 <211> 30
 <212> DNA
 <213> Artificial Sequence
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 <223> Primer
 <400> 7
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 <220>
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 <220>
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 <400> 12
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 <210> 13
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 <212> DNA
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 <220>
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 <400> 13
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 <210> 14
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 <220>
 <223> Primer

 <400> 14
 taagatctcc ctacgtaccc cttcaaccac 30

<210> 15
 <211> 24
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 <220>
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 <400> 15
 gctagccgcc gcgccagctc gggc 24

 <210> 16
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 <220>
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 <400> 16
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 <210> 17
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 <220>
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 <400> 17
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 <210> 18
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 <220>
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 <400> 18
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gta	63
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<220>
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 <400> 26
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 <210> 27
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 <220>
 <223> Primer

 <400> 27
 tgggctagcg ttttgtgcaa ctccgccggt ggagtg 36

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 tggctgcaga gctcacagcc gggtgccgga tccggtt 37

 <210> 29
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 <220>
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 <400> 29
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 <220>
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<211> 37

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<400> 34
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<210> 35

<211> 28

<212> DNA

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<220>

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<400> 35
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<210> 36

<211> 35

<212> PRT

<213> Streptomyces erythraea

<400> 36
Val Ala Val Asp Trp Glu Ala Val Leu Gly Arg Ala Gly Leu Val Asp
1 5 10 15
Leu Pro Gly Tyr Pro Phe Gln Gly Lys Arg Phe Trp Leu Leu Pro Asp
20 25 30
Arg Thr Thr
35

<210> 37

<211> 35

<212> PRT

<213> Streptomyces erythraea

<400> 37
Val Thr Thr Ala Pro Ser Glu Arg Ala Gly Glu Pro Glu Thr Glu Ser
1 5 10 15
Leu Arg Asp Arg Leu Ala Gly Leu Pro Arg Ala Glu Arg Thr Ala Glu
20 25 30

Leu Val Arg
 35

 <210> 38
 <211> 41
 <212> PRT
 <213> Streptomyces erythraea

 <400> 38
 Val Ala Val Asp Trp Glu Ser Val His Leu Gly Thr Gly Ala Arg Arg
 1 5 10 15
 Val Pro Leu Pro Thr Tyr Pro Phe Gln Arg Glu Arg Val Trp Leu Glu
 20 25 30
 Pro Lys Pro Val Ala Arg Arg Ser Thr
 35 40

 <210> 39
 <211> 33
 <212> PRT
 <213> Streptomyces erythraea

 <400> 39
 Asp Asp Ala Arg Arg Ala Ala Pro Gly Ala Pro Ala Glu Pro Arg Val
 1 5 10 15
 Gly Ala Leu Ala Ser Leu Pro Ala Pro Glu Arg Glu Glu Ala Leu Phe
 20 25 30
 Glu

 <210> 40
 <211> 41
 <212> PRT
 <213> Streptomyces erythraea

 <400> 40
 Val Gly Ala Asp Leu Arg Pro Ala Val Ala Gly Gly Arg Pro Ala Glu
 1 5 10 15
 Leu Pro Thr Tyr Pro Phe Glu His Gly Arg Phe Trp Pro Arg Pro His
 20 25 30
 Arg Pro Ala Asp Val Ser Ala Leu Gly
 35 40

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 <210> 41
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 <212> PRT
 <213> Streptomyces erythraea

 <400> 41
 Arg Ala Lys Leu Arg Ala Ala Gly Gly Ala Glu Ala Ala Gly Pro Asn
 1 5 10 15
 Val Val Asp Arg Leu Ala Gly Arg Ser Glu Ser Asp Gln Val Ala Gly
 20 25 30
 Leu Ala Glu
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 <210> 42
 <211> 38
 <212> PRT
 <213> Streptomyces erythraea

 <400> 42
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Thr Gly Gly Arg Ala Arg 20 25 30
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 <210> 43
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 <212> PRT
 <213> Streptomyces erythraea
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 Ala Gly Ala Arg Ala Glu Ala Arg Gln Ser Glu Glu Gly Pro Ala Leu
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 Ala Gln Arg Leu Ala Ala Leu Ser Thr Ala Glu Arg Arg Glu His Leu
 20 25 30
 Ala His
 <210> 44
 <211> 40
 <212> PRT
 <213> Streptomyces hygroscopicus
 <400> 44
 Val Thr Val Asp Trp Pro Ala Ile Leu Gly Thr Thr Thr Ala Arg Val
 1 5 10 15
 Leu Asp Leu Pro Thr Tyr Ala Phe Gln His Gln Arg Tyr Trp Val Lys
 20 25 30
 Ser Val Asp Arg Ala Ala Ala Asp
 35 40
 <210> 45
 <211> 32
 <212> PRT
 <213> Streptomyces hygroscopicus
 <400> 45
 Arg Pro Ile Ala Arg Arg Ala Ala Ser Thr Gly Asp Ser Ser Val Gln
 1 5 10 15
 Trp Leu Ala Ala Leu Ala Pro Glu Glu Arg Ala Lys Ala Leu Leu Arg
 20 25 30
 <210> 46
 <211> 40
 <212> PRT
 <213> Streptomyces hygroscopicus
 <400> 46
 Val Thr Val Asp Trp Pro Ala Ile Leu Gly Thr Ala Thr Thr Arg Val
 1 5 10 15
 Pro Asp Leu Pro Thr Tyr Ala Phe Gln His Gln Arg Phe Trp Ala Glu
 20 25 30
 Gly Ala Asp Arg Ser Val Ala Gly
 35 40
 <210> 47
 <211> 32
 <212> PRT
 <213> Streptomyces hygroscopicus
 <400> 47
 Arg Pro Val Ala Arg Arg Ala Ala Ser Thr Gly Gly Ser Ser Val Gln
 1 5 10 15
 Trp Leu Ala Arg Leu Ala Pro Val Glu Arg Glu Lys Ala Leu Leu Lys
 20 25 30

<210> 48
 <211> 44
 <212> PRT
 <213> Streptomyces hygrosopicus

 <400> 48
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 1 5 10 15
 Val Leu Asp Leu Pro Thr Tyr Ala Phe Gln His Gln Arg Tyr Trp Ala
 20 25 30
 Glu Ala Gly Arg Ser Ala Asp Val Ser Ala Ala Gly
 35 40

 <210> 49
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 <212> PRT
 <213> Streptomyces hygrosopicus

 <400> 49
 Arg Pro Val Ala Arg Arg Ala Ala Ser Thr Gly Asp Ser Ser Ala Gln
 1 5 10 15
 Trp Leu Val Gly Leu Ala Pro Glu Glu Arg Ala Lys Ala Leu Leu Lys
 20 25 30

 <210> 50
 <211> 40
 <212> PRT
 <213> Streptomyces hygrosopicus

 <400> 50
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 20 25 30
 Ser Val Asp Arg Ala Ala Ala Asp
 35 40

 <210> 51
 <211> 35
 <212> PRT
 <213> Streptomyces hygrosopicus

 <400> 51
 Arg Pro Gln Ser Arg Thr Ala Ala Arg Asn Glu Val Gly Ser Gln Pro
 1 5 10 15
 Leu Ser Ala Arg Leu Thr Gly Arg Thr Ser Val Glu Gln His Arg Ile
 20 25 30
 Met Leu Glu
 35

 <210> 52
 <211> 24
 <212> PRT
 <213> Streptomyces avermitilis

 <400> 52
 Thr His Pro His Pro His Thr His Leu Asp Leu Pro Thr Tyr Pro Phe
 1 5 10 15
 Gln His Gln His Tyr Trp Leu Glu
 20

 <210> 53
 <211> 25

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<212> PRT
<213> Streptomyces avermitilis

<400> 53
Pro Thr Pro Pro Ala Glu Leu His Lys Thr Leu Ala His Gln Thr Ser
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Ala Asp Gln Arg Ala Ala Leu Leu Glu
20      25

<210> 54
<211> 24
<212> PRT
<213> Streptomyces avermitilis

<400> 54
Asn Gly Pro His Thr His Thr His Leu Asp Leu Pro Thr Tyr Pro Phe
1      5      10      15
Gly His His His Tyr Trp Leu Glu
20

<210> 55
<211> 25
<212> PRT
<213> Streptomyces avermitilis

<400> 55
Ala Asp Asn Gly Ala Gly Leu His Ala Arg Leu Ala Gly Gln Thr His
1      5      10      15
Glu Gln Gly His Thr Thr Leu Leu Ala
20      25

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<211> 122
<212> DNA
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<220>
<223> Synthetic oligonucleotide

<400> 56
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ctgcagccgg accgcactag tcctcgtgac gagggagatg catcgagcct gagggaccgg      120
tt                                                    122

<210> 57
<211> 118
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 57
aaccgggtccc tcaggctcga tgcattctccc tcgtcacgag gactagtgcg gtccgggtgc      60
agccagaacc gcttgccctg gaaaggatac gtaggcagat ctaccagtcc ggccccggc      118

<210> 58
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

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<400> 58
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ctgcag 66

<210> 59
<211> 62
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 59
ctgcagccag aaccgcttgc cctggaaagg atacgtaggc agatctacca gtccggccccg 60
gc 62

<210> 60
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 60
ccggaccgca ctagtctctg tgacgagggg gatgcatcga gcctgagggg ccggtt 56

<210> 61
<211> 56
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 61
aaccggtccc tcaggctcga tgcattctccc tcgtcacgag gactagtgcg gtccgg 56